

4/34/1 DIALOG(R)File 351:Derwent WPI (c) 2006 Thomson Derwent. All rts. reserv.  
010887987      \*\*Image available\*\*  
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Pressure compensator container for hot water system - has  
expansion pipe section inside pressure control chamber filled with  
inert

gas which is compressed when pipe section expands

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Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19504750	A1	19960822	DE 1004750	A	19950214	199639 B

Priority Applications (No Type Date): DE 1004750 A 19950214

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19504750	A1		8	F24D-003/10	

Abstract (Basic): DE 19504750 A

The pressure compensator container comprises an oval housing

(1)

with flanges (2) at each end to connect into a hot water line. The  
inside of the housing has a central pipe section (6) of flexible  
material with the ends clamped into the connecting flanges. The  
pipe

section expands with the increasing water pressure as the water  
heats.

The trapped volume (5) in the housing is filled with an inert gas,  
eg.

nitrogen, which is compressed as the pipe section expands.

The compensator is strengthened by a central rod through the  
housing which carries spacers to limit the compression of the  
flexible

pipe section. An impeller mounted on the rod is rotated by the  
water

flow and generates a swirl effect to prevent build-up of limescale  
and

dirt etc.

ADVANTAGE - Provides that no water is collected in the  
container

over a long time.

Dwg.1/5

Derwent Class: Q74

International Patent Class (Main): F24D-003/10

International Patent Class (Additional): F24D-019/10